



Minimum Evaporating Temp. With:

- 10 K Suction Superheat
- 5 K Suction Superheat
- Maximum Evaporating Temperature

Suction Superheat 10.0K

Liquid Subcooling 0.0K

Evaporating Temperature, °C

Cond °C	Cooling Capacity, kW												
	-25.0	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0	12.5	15.0	20.0	25.0
17.0	2.28	2.84	3.50	4.28									
20.0	2.19	2.74	3.39	4.15	5.04								
25.0	2.04	2.57	3.20	3.94	4.80	5.79							
30.0	1.88	2.41	3.02	3.73	4.55	5.50	6.59	7.07	7.83				
35.0	1.74	2.24	2.83	3.50	4.29	5.20	6.24	6.70	7.43	8.08	8.78	10.30	
40.0	1.60	2.07	2.63	3.28	4.02	4.89	5.88	6.31	7.01	7.63	8.30	9.75	11.40
45.0		1.90	2.43	3.04	3.75	4.56	5.50	5.91	6.57	7.16	7.79	9.18	10.75
50.0			2.23	2.80	3.46	4.23	5.11	5.49	6.12	6.67	7.27	8.58	10.05
55.0				2.55	3.16	3.87	4.69	5.05	5.64	6.16	6.71	7.94	9.33
60.0					2.84	3.50	4.25	4.59	5.13	5.61	6.13	7.27	8.57
65.0						3.09	3.78	4.08	4.57	5.02	5.49		
68.0						2.86	3.51	3.80	4.26				

50 Hz

ZH05K1P-PFZ

R410A Dew Point

Cond °C	Power, kW												
	-25.0	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0	12.5	15.0	20.0	25.0
17.0	0.95	0.95	0.94	0.93									
20.0	1.00	1.01	1.00	0.99	0.98								
25.0	1.08	1.10	1.10	1.10	1.08	1.07							
30.0	1.16	1.20	1.20	1.20	1.20	1.18	1.17	1.16	1.16				
35.0	1.25	1.29	1.32	1.32	1.32	1.31	1.30	1.29	1.28	1.28	1.28	1.28	
40.0	1.32	1.39	1.43	1.45	1.46	1.46	1.44	1.44	1.43	1.42	1.42	1.42	1.42
45.0		1.50	1.55	1.59	1.61	1.62	1.61	1.61	1.60	1.60	1.60	1.58	1.58
50.0			1.68	1.74	1.78	1.80	1.80	1.80	1.80	1.80	1.79	1.78	1.78
55.0				1.90	1.96	2.00	2.01	2.02	2.02	2.02	2.02	2.01	2.01
60.0					2.16	2.22	2.25	2.26	2.27	2.28	2.28	2.28	2.28
65.0						2.46	2.52	2.53	2.55	2.56	2.57		
68.0						2.60	2.66	2.68	2.71				

Cond °C	Current at 230 V, A												
	-25.0	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0	12.5	15.0	20.0	25.0
17.0	4.54	4.53	4.49	4.43									
20.0	4.65	4.66	4.64	4.58	4.52								
25.0	4.88	4.94	4.95	4.92	4.86	4.80							
30.0	5.17	5.29	5.35	5.34	5.30	5.25	5.19	5.17	5.14				
35.0	5.51	5.70	5.81	5.85	5.85	5.80	5.75	5.72	5.69	5.67	5.66	5.66	
40.0	5.88	6.16	6.34	6.44	6.47	6.46	6.42	6.40	6.37	6.34	6.32	6.30	6.32
45.0		6.65	6.91	7.08	7.17	7.20	7.19	7.17	7.15	7.13	7.10	7.07	7.07
50.0			7.53	7.77	7.93	8.01	8.04	8.04	8.03	8.02	8.00	7.97	7.95
55.0				8.51	8.75	8.89	8.97	8.99	9.00	9.00	9.00	8.98	8.95
60.0					9.60	9.83	9.98	10.01	10.05	10.08	10.09	10.09	10.08
65.0						10.81	11.03	11.10	11.18	11.22	11.26		
68.0						11.33	11.60	11.68	11.78				

Cond °C	Suction Mass Flow, g/s												
	-25.0	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0	12.5	15.0	20.0	25.0
17.0	11.75	14.45	17.60	21.30									
20.0	11.55	14.30	17.50	21.20	25.40								
25.0	11.25	14.00	17.25	21.00	25.30	30.20							
30.0	10.90	13.75	17.00	20.80	25.00	30.00	35.50	38.00	41.90				
35.0	10.60	13.45	16.75	20.50	24.80	29.70	35.30	37.80	41.70	45.10	48.80	56.90	
40.0	10.30	13.20	16.50	20.30	24.60	29.50	35.10	37.50	41.40	44.90	48.60	56.60	65.70
45.0		12.90	16.20	19.95	24.30	29.20	34.80	37.20	41.10	44.60	48.30	56.40	65.50
50.0			15.90	19.65	23.90	28.80	34.40	36.90	40.80	44.30	48.00	56.10	65.20
55.0				19.30	23.60	28.50	34.10	36.50	40.40	43.90	47.70	55.80	65.10
60.0					23.20	28.10	33.70	36.20	40.10	43.70	47.40	55.70	65.10
65.0						27.90	33.60	36.10	40.10	43.60	47.50		
68.0						27.90	33.70	36.20	40.20				

### COMPRESSOR MECHANICAL AND PHYSICAL DATA

Displacement @ 50 Hz, m³/h	3.96
Length/Width, mm	227/194
Height, mm	388
Net Weight, kg	21.3
Gross Weight, kg	22
Stub Suction, inch	3/4
Stub Discharge, inch	1/2
Oil Quantity, l	0.74
Oil type (original charge)	POE RL32-3MAF
Oil type (approved oils)	POE RL32-3MAF
Base mounting (hole dia), mm	190 x 190 (8.5)
Sound Pressure @ 1m (HT), dBA	58
Sound Power (HT), dBA	69
Sound Conditions (HT, Temperatures:	-7 / 50 / 3 °C at 50 Hz
Evap./Cond./Suction at freq./speed)	
PED Category	1
Max. Internal Free Volume, l	2.30
High Side PS gauge, bar	46
Low Side PS gauge, bar	28
Low Side TS Max., °C	50
Refrigerant's GWP	2088
Refrigerant's classification	A1

50 Hz

ZH05K1P-PFZ

R410A Dew Point

### **COMPRESSOR ELECTRICAL DATA (220-240 V / 1~ / 50 Hz)**

Maximum Operating Current, A	12.8
Locked Rotor Current, A	60
Winding Resistance, ohm	1.33/2.6 (R/S)
Default Enclosure Class	IP 21 (IEC 34)

### **ACCESSORIES INCLUDED**

### **ACCESSORIES OPTIONAL**

Crankcase Heater	40 W External
------------------	---------------

### **MOTOR OPTIONS**

<b>Motor Code</b>	<b>Power Supply</b>	<b>Nominal Voltage, V</b>	<b>Start Connection</b>	<b>DOL Connection</b>	<b>Amps Factor</b>
PFZ	220-240 V / 1~ / 50 Hz	230		PSC	1.00